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NOTICE OF ALLOWANCE AND FEE(S) DUE

25944

7590

06/12/2009

OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850 EXAMINER

HEINCER, LIAM J

ART UNIT PAPER NUMBER

1796

DATE MAILED: 06/12/2009

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/568,428	02/14/2006	Taishi Shigematsu	126984	9736

TITLE OF INVENTION: METHOD OF PREPARING ALIPHATIC POLYMER HAVING KETONE GROUP IN MAIN CHAIN THEREOF AND METHOD OF PREPARING COMPOSITION CONTAINING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/14/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/568,428	02/14/2006		Taishi Shigematsu				126984	9736
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nonprovisional	NO	\$1510	\$300		\$0		\$1810	09/14/2009
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HEINCEF	R, LIAM J	1796	528-425000					
. Change of corresponde CFR 1.363). Change of corresp Address form PTO/SI "Fee Address" ind PTO/SB/47; Rev 03-6 Number is required.	(1) the names of u or agents OR, alter (2) the name of a s registered attorney 2 registered patent	names of up to 3 registered patent attorneys to OR, alternatively, name of a single firm (having as a member a ed attorney or agent) and the names of up to ered patent attorneys or agents. If no name is no name will be printed.						
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	data will appear on the Ta substitute for filing (B) RESIDENCE: (C	he pa g an a	tent. If an assignussignment. and STATE OR C	OUNT	TRY)	cument has been filed for
lease check the appropr	iate assignee category or							up entity Government
 a. The following fee(s) Issue Fee 	are submitted:	41	 Payment of Fee(s): (A check is enclos 		se first reapply ar	ıy prev	iously paid issue fee s	hown above)
Publication Fee (N	No small entity discount p		Payment by credit card. Form PTO-2038 is attached.					
Advance Order -	The Director is he overpayment, to I	ereby Depos	authorized to char sit Account Numbe	ge the i	required fee(s), any def (enclose an	iciency, or credit any extra copy of this form).		
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25944 75	90 06/12/2009		EXAM	INER	
OLIFF & BERRI	DGE, PLC	HEINCER	R, LIAM J		
P.O. BOX 320850		ART UNIT	PAPER NUMBER		
ALEXANDRIA, VA 22320-4850			1796		
		DATE MAILED: 06/12/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 478 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 478 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/568,428	SHIGEMATSU ET AL.				
Notice of Allowability	Examiner	Art Unit				
	Liam J. Heincer	1796				
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 1. ☐ This communication is responsive to 5/20.	(OR REMAINS) CLOSED or other appropriate comr IGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS				
2. X The allowed claim(s) is/are 1-3,5-7,9,12-18,20-24 and 27-3	<u>36</u> .					
 Acknowledgment is made of a claim for foreign priority una)	e been received. e been received in Applicat cuments have been receiv	ion No ed in this national stage application from the				
noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IENT of this application.					
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached						
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of						
each sheet. Replacement sheet(s) should be labeled as such in t						
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 						
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08),	6. ☐ Interview Paper No 7. ☑ Examiner 8. ☑ Examiner 9. ☐ Other	nformal Patent Application Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allowance				
	/Mark Easho Supervisory P	atent Examiner, Art Unit 1796				

EXAMINER'S AMENDMENT

Page 2

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Benjamin Prebyl on May 27, 2009.

The application has been amended as follows:

<u>In claim 1</u>: After polyether polyol in last line of claim 1 add the language "which contains a secondary alcohol group and a primary alcohol group in a single molecule".

<u>In claim 16</u>: After polyether polyol in last line of claim 16 add the language "which contains a secondary alcohol group and a primary alcohol group in a single molecule".

The following is an examiner's statement of reasons for allowance:

Considering Claims 1 and 16: There is nothing in the prior art of record to teach or suggests polymerizing a polyetherpolyol with secondary alcohol groups to produce an aliphatic polymer having ketone groups in the main chain. The closest prior art, Mullen et al. teaches polymerizing a polyether polyol with only primary alcohol groups in the presence of a catalyst. However, there is nothing in the reference to teach or suggest using a compound with secondary alcohol groups, or that the resultant product will contain ketone groups.

Considering Claim 30: There is nothing in the prior art of record to teach or suggest polymerizing the claimed polyhydric alcohol to form a gel substance, applying the gel substance to a substrate, then hardening the gel substance. The closest prior art, Seiden et al. teaches polymerizing the claimed polyhydric alcohol, but the end use is as a food emulsifier, not as a gel substance on a substrate. There is nothing in the prior art of record to teach or suggest using the polyglycerol of Seiden et al. in the claimed process.

<u>Considering Claims 31-35</u>: There is nothing in the prior art of record to teach or suggest adding a electrically conductive material to the polyhydric alcohol comprising reactant mixture. The

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closest prior art, Seiden et al. teaches polymerizing the claimed polyhydric alcohol, but does not teach adding an electrically conductive powder to the raw material. As the end use of the compound of Seiden et al. is as a food emulsifier, a person having ordinary skill in the art at the time of invention would not be motivated to add a conductive powder to the composition prior to polymerization, as electrical conductivity is not a desired property in food emulsification.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Liam J. Heincer whose telephone number is 571-270-3297. The examiner can normally be reached on Monday thru Friday 7:30 to 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on 571-272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark Eashoo/ Supervisory Patent Examiner, Art Unit 1796

LJH May 27, 2009